

IN THE CLAIMS:

1. (currently amended) A phase-locked loop structure providing local oscillator signals for a multimode system, said phase-locked loop structure comprising:
 - a first phase-locked loop including a first voltage controlled oscillator;
 - a second phase-locked loop including a second voltage controlled oscillator;
 - a first local oscillator output for providing a first local oscillator signal for at least one of said modes, wherein a signal output by said first voltage controlled oscillator is forwarded to said first local oscillator output;
 - a second local oscillator output for providing a second local oscillator signal for a selectable one of said modes; and
 - a selection component for forwarding a signal output by said first voltage controlled oscillator or a signal output by said second voltage controlled oscillator to said second local oscillator output, said selection component being arranged for forwarding to said second local oscillator output a signal which is output by the voltage controlled oscillator having a lower current consumption, whenever said signal is able to fulfill system requirements on said second local oscillator signal for a currently selected one of said modes.
2. (original) A phase-locked loop structure according to claim 1, wherein said first voltage controlled oscillator is designed to generate signals in a first frequency band, wherein said second voltage controlled oscillator is designed to generate signals in a second frequency band, and wherein said phase-locked loop structure further comprises a control unit applying a control signal to said selection component which causes said selection component to forward a signal output by said first voltage controlled oscillator to said second local oscillator output whenever a second local oscillator signal having a frequency selected from said first frequency band is required and applying a control signal to said selection component which causes said selection component to forward a signal output by said second voltage controlled oscillator to said second local oscillator output whenever a

second local oscillator signal having a frequency selected from said second frequency band is required.

3. (original) A phase-locked loop structure according to claim 1, wherein said first voltage controlled oscillator is designed to generate signals having a first quality and said second voltage controlled oscillator is designed to generate signals having a second quality, said first quality being higher than said second quality, and wherein said phase-locked loop structure further comprises a control unit applying a control signal to said selection component which causes said selection component to forward a signal output by said first voltage controlled oscillator to said second local oscillator output whenever a second local oscillator signal having said first quality is required and applying a control signal to said selection component which causes said selection component to forward a signal output by said second voltage controlled oscillator to said second local oscillator output whenever a second local oscillator signal having said second quality is required.
4. (original) A phase-locked loop structure according to claim 1, further comprising:
at least one control unit, which at least one control unit applies control signals to said selection component causing said selection component to alternate between forwarding a signal output by said first voltage controlled oscillator and a signal output by said second voltage controlled oscillator to said second local oscillator output, and which at least one control unit sets a required frequency of the signal output by a respective voltage controlled oscillator before a control signal is provided to said selection component to switch to forwarding a signal output by said respective voltage controlled oscillator to said second local oscillator output.
5. (original) A phase-locked loop structure according to claim 1, further comprising a control unit, which control unit switches off at least one of said first voltage controlled oscillator and said second voltage controlled oscillator while said first voltage controlled

oscillator or said second voltage controlled oscillator is not required for providing a signal to one of said first local oscillator output and said second local oscillator output and while the frequencies of signals currently generated by said first voltage controlled oscillator and said second voltage controlled oscillator are closer to each other than a predetermined difference.

6. (currently amended) A communication unit comprising a transmitter chain requiring a local oscillator signal for processing signals for transmission, wherein said transmitter chain enables a multimode system transmission, a receiver chain requiring a local oscillator signal for processing received signals, wherein said receiver chain enables a multimode system reception, and a phase-locked loop structure providing local oscillator signals, said phase-locked loop structure comprising:
 - a first phase-locked loop including a first voltage controlled oscillator;
 - a second phase-locked loop including a second voltage controlled oscillator;
 - a first local oscillator output for providing a first local oscillator signal for at least one of said modes, wherein a signal output by said first voltage controlled oscillator is forwarded to said first local oscillator output;
 - a second local oscillator output for providing a second local oscillator signal for a selectable one of said modes; and
 - a selection component for forwarding a signal output by said first voltage controlled oscillator or a signal output by said second voltage controlled oscillator to said second local oscillator output;wherein one of said first local oscillator output and said second local oscillator output provides a local oscillator signal to said transmitter chain and wherein the respective other one of said first local oscillator output and said second local oscillator output provides a local oscillator signal to said receiver chain.

7. (currently amended) A method of providing a first local oscillator signal and a second local oscillator signal for a multimode system, said method comprising:
 - in case said first local oscillator signal is required for one of said modes, using a signal provided by a first voltage controlled oscillator of a first phase locked loop as said first local oscillator signal; and
 - in case said second local oscillator signal is required for a selectable one of said modes, selecting a signal provided by one of said first voltage controlled oscillator and a second voltage controlled oscillator of a second phase locked loop for use as said second local oscillator signal, wherein a signal is selected which is output by the voltage controlled oscillator having a lower current consumption, whenever said signal is able to fulfill system requirements on said second local oscillator signal for a currently selected one of said modes.
8. (original) A method according to claim 7, wherein said first voltage controlled oscillator generates signals in a first frequency band, wherein said second voltage controlled oscillator generates signals in a second frequency band, wherein a signal output by said first voltage controlled oscillator is used as said second local oscillator signal whenever a second local oscillator signal having a frequency selected from said first frequency band is required and wherein a signal output by said second voltage controlled oscillator is used as said second local signal whenever a second local oscillator signal having a frequency selected from said second frequency band is required.
9. (original) A method according to claim 7, wherein said first voltage controlled oscillator generates signals having a first quality and said second voltage controlled oscillator generates signals having a second quality, said first quality being higher than said second quality, wherein a signal output by said first voltage controlled oscillator is used as said second local oscillator signal whenever a second local oscillator signal having said first quality is required, and wherein a signal output by said second voltage controlled oscillator

is used as said second local oscillator signal whenever a second local oscillator signal having said second quality is required.

10. (original) A method according to claim 7, wherein a signal output by said first voltage controlled oscillator and a signal output by said second voltage controlled oscillator are used alternately as said second local oscillator signal, said method further comprising setting a required frequency of a signal output by a respective one of said voltage controlled oscillators before a signal output by said voltage controlled oscillator is used as said second local oscillator signal.
11. (original) A method according to claim 7, further comprising switching off at least one of said first voltage controlled oscillator and said second voltage controlled oscillator while a signal generated by said first voltage controlled oscillator or a signal generated by said second voltage controlled oscillator, respectively, is not to be used as one of said first local oscillator signal and said second local oscillator signal, and while the frequencies of signals currently generated by said first voltage controlled oscillator and said second voltage controlled oscillator are closer to each other than a predetermined difference.
12. (new) A communication unit according to claim 6, wherein said selection component is arranged for forwarding to said second local oscillator output a signal which is output by the voltage controlled oscillator having a lower current consumption, whenever said signal is able to fulfill system requirements on said second local oscillator signal for a currently selected one of said modes.
13. (new) A phase-locked loop structure providing local oscillator signals, said phase-locked loop structure comprising:
 - a first phase-locked loop including a first voltage controlled oscillator;
 - a second phase-locked loop including a second voltage controlled oscillator;

a first local oscillator output for providing a first local oscillator signal, wherein a signal output by said first voltage controlled oscillator is forwarded to said first local oscillator output;

a second local oscillator output for providing a second local oscillator signal;

a selection component for forwarding a signal output by said first voltage controlled oscillator or a signal output by said second voltage controlled oscillator to said second local oscillator output; and

a control unit, which control unit switches off at least one of said first voltage controlled oscillator and said second voltage controlled oscillator while said first voltage controlled oscillator or said second voltage controlled oscillator is not required for providing a signal to one of said first local oscillator output and said second local oscillator output and while the frequencies of signals currently generated by said first voltage controlled oscillator and said second voltage controlled oscillator are closer to each other than a predetermined difference.

14. (new) A method of providing a first local oscillator signal and a second local oscillator signal, said method comprising:

in case said first local oscillator signal is required, using a signal provided by a first voltage controlled oscillator of a first phase locked loop as said first local oscillator signal;

in case said second local oscillator signal is required, selecting a signal provided by one of said first voltage controlled oscillator and a second voltage controlled oscillator of a second phase locked loop for use as said second local oscillator signal; and

switching off at least one of said first voltage controlled oscillator and said second voltage controlled oscillator while a signal generated by said first voltage controlled oscillator or a signal generated by said second voltage controlled oscillator, respectively, is not to be used as one of said first local oscillator signal and said second local oscillator

signal, and while the frequencies of signals currently generated by said first voltage controlled oscillator and said second voltage controlled oscillator are closer to each other than a predetermined difference.